



UNIVERSITY OF COPENHAGEN



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# CLIMATE *CHANGE*

Global Risks, Challenges & Decisions

COPENHAGEN 2009, 10-12 March

## Preliminary Congress Programme



INTERNATIONAL ALLIANCE OF  
RESEARCH UNIVERSITIES

Australian National University, ETH Zürich, National University of Singapore, Peking University, University of California - Berkeley, University of Cambridge, University of Copenhagen, University of Oxford, The University of Tokyo, Yale University

## 10 March

### Framing the Issues

#### Keynote Addresses

Global Warming: How to  
Solve an Intractable Problem?

State of Climate Science: Taking a Starting Point in the IPCC

Dr. Rajendra Pachauri, Chairman of the IPCC

Institutional Challenges of Climate Change

Mr José Manuel Barroso, President of the European Commission

Making Policy Decisions in Uncharted Territory

(tbc)

From Kyoto to Copenhagen – Policy Makers Facing the Global Climate Change Challenge

(tbc)

#### Plenary Session

### Theme 1

Exploring the Risks:  
Understanding Climate Change

#### Plenary Speaker

Prof. Stefan Rahmstorf,  
Potsdam Institute for Climate Impact Research

#### Plenary Session

### Theme 2

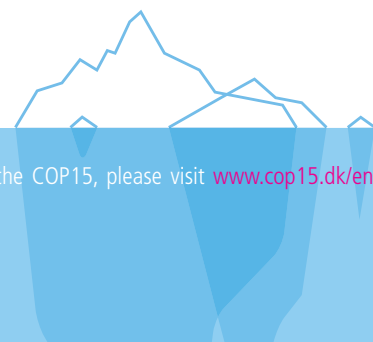
Sharing the Burdens and  
Opportunities: Equity Issues

#### Plenary Speaker

(tbc)

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For further information about Copenhagen, please visit [www.visitcopenhagen.dk](http://www.visitcopenhagen.dk). For further information about the COP15, please visit [www.cop15.dk/en/](http://www.cop15.dk/en/)



## 11 March

From Knowledge to Action

Plenary Session

### Theme 3

Reducing the Risks of  
Climate Change:  
Opportunities for Mitigation

Plenary Speakers

**Prof. Nebojsa Nakicenovic,**  
The International Institute for Applied Systems  
Analysis (IIASA)

**Prof. William Nordhaus,**  
Yale University

Plenary Session

### Theme 4

Preparing for Impacts:  
Adapting to the Inevitable

Plenary Speaker

**Prof. Amanda Lynch,**  
Monash University

## 12 March

From High-End Scenarios to Sustainable Solutions

Plenary Session

### Theme 5

Managing the Planet

Plenary Speaker

**Prof. John Schellnhuber,**  
Potsdam Institute for Climate Impact Research,

Plenary Session

### Theme 6

Mobilising the Populace:  
Human Dimensions of  
Climate Change

Plenary Speakers

**Prof. Thomas Homer-Dixon,**  
University of Toronto

**Prof. Diana Liverman,**  
University of Oxford

Closing session

Engaging the Global Community

**Prof. Dan Kammen,**  
University of California - Berkeley

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## Theme 1

### Exploring the Risks: Understanding Climate Change

1. Cryosphere, Instabilities, Sea Level Rise.  
Chairs [Prof. Dorthe Dahl-Jensen, University of Copenhagen](#) & [Prof. Konrad Steffen, University of Colorado](#)
2. Global/Regional Climate State in 2030.  
Chairs [Prof. John Mitchell, Met Office](#) & [Prof. Masahide Kimoto, University of Tokyo](#)
3. Changes in Ocean Circulation Related to Regional Climate.  
Chair [Prof. Dr. Martin Visbeck, University of Kiel](#)
4. Vulnerability in Carbon Sinks.  
Chairs [Dr. Mike Raupach, Commonwealth Scientific and Industrial Research Organisation \(CSIRO\) Marine and Atmospheric Research](#) & [Prof. Nicolas Gruber, ETH Zurich](#)
5. Developing a Spectrum of Models to Describe the Earth System.  
Chair [Prof. Martin Claussen, University of Hamburg](#)
6. Tipping Elements in the Earth System.  
Chair [Prof. Matt England, University of New South Wales](#)
7. Informing the Future by Understanding the Past.  
Chairs [Dr. Bette Otto-Bliesner, National Center for Atmospheric Research \(NCAR\)](#) & [Dr. Chris Turney, University of Exeter](#)
8. Earth System Feedbacks from Carbon Sequestration.  
(tbc)
9. Detection and Attribution: State of Play in 2009.  
Chair [Prof. Ann Henderson-Sellers, Macquarie University](#)

## Theme 2

### Sharing the Burdens and Opportunities: Equity Issues

10. Equity between Sectors and Individuals within Countries.  
Chair [Dr. Paul Baer, Co-director, EcoEquity](#)
11. Equity between Nations and Regions.  
Chairs [Prof. Timmons Roberts, The College of William and Mary & University of Oxford](#) & [Prof. Coleen Vogel, University of the Witwatersrand](#)
12. Equity in Time: Past, Present and Future Emitters and Victims.  
Chairs [Dr. Carlos Nobre, Brazil National Institute for Space Research & Chair of IGBP](#) & [Dr. Cameron Hepburn, University of Oxford](#)
13. Equity between Humans and the Rest of Nature.  
Chairs [Prof. Dale Jamieson, New York University](#) & [Dr. William Schlesinger, Gary Institute of Ecosystem Studies](#)
14. Differential Effects of Climate Change on Human Health and Well-Being.  
Chair [Prof. Tony McMichael, Australian National University](#)
15. Avoiding Land-Cover Change to Reduce Carbon Emissions.  
Chair [Prof. Mark S. Ashton, Yale School of Forestry and Environmental Studies](#)

## Theme 3

### Reducing the Risks of Climate Change: Opportunities for Mitigation

#### 16. Integrating Economic Models and the Dynamics of the Carbon Sinks.

Chair **Dr. Pep Canadell**, Commonwealth Scientific and Industrial Research Organisation (CSIRO) Marine and Atmospheric Research & Executive Director Global Carbon Project

#### 17. Carbon Capture and Storage: Technology, Economy, Social Attitudes.

Chair **Prof. Dr. Wim C. Turkenburg**, Director Copernicus Institute, Utrecht University

#### 18. Potentials and Limitations of Biofuels.

Chair **Chairs Prof. Akiyoshi Sakoda**, University of Tokyo & **Prof. Claus Felby**, University of Copenhagen

#### 19. Renewable Energies: How Far Can They Take Us?

Chair **Ph.D. Henrik Bindlev**, Technical University of Denmark & **Prof. Jim Skea**, Research Director, UK Energy Research Centre

#### 20. Enhancing Energy Conservation and Efficiency

Chair **Prof. Diana Ürge-Vorsatz**, Central European University

#### 21. Integrated Energy Mixes from a Socio-Economic and Environmental Perspective.

Chair **Prof. Jiahua Pan**, Chinese Academy of Social Sciences

#### 22. Transforming Institutions to Managing a Carbon Constrained World.

(tbc)

#### 23. Integrating National and International Approaches to Emission Caps and Trading: Developing a Global Framework.

Chair **Prof. Warwick McKibbin**, Australian National University

#### 24. The Role of Agriculture in Mitigating Climate Change.

Chairs **Prof. Pete Smith**, University of Aberdeen & **Prof. Jørgen E. Olesen**, University of Aarhus

#### 25. The Role of Forests in Mitigation Climate Change.

Chair **Director General Frances Seymour**, Center for International Forestry Research (CIFOR)

#### 26. Beyond Technology: Changing the Ways We Live?

Chair **Prof. Jackie Burgess**, University of East Anglia

#### 27. Low Carbon Science, Technology Policies.

Chair **Prof. Dan Kammen**, University of California - Berkeley

#### 28. Climate Change and Air Pollution:

The Role of non-CO2 Atmospheric Pollutants (CH4, Halocarbons, N2O, Ozone, Aerosols) in Climate Stabilization.

Chairs **Dr. James E. Hansen**, NASA Goddard Institute for Space Studies & **Prof. Ole John Nielsen**, University of Copenhagen

## Theme 4

### Preparing for Impacts: Adapting to the Inevitable

29. Climate Change and Water Systems.  
Chairs Prof. Maria Carmen Lemos, University of Michigan & Prof. Torkil Jønych Clausen, DHI
30. Impact of Climate Change on Ecosystem Services.  
Chair Prof. Hal Mooney, Stanford University
31. Biodiversity: Enhancement of Resilience or Facilitating Transformation?  
Chair Dr. Mark Stafford-Smith, Commonwealth Scientific and Industrial Research Organisation (CSIRO) Climate Adaptation Flagship
32. Economic Costs of not Adapting to Climate Change.  
Chair Dr. Frank Jotzo, Australian National University
33. Adapting Urban Areas to Climate Change.  
Chair Prof. Roberto Rodriguez-Sanchez, University of California Riverside
34. Adapting Human Land Use to Climate Change.  
Chair Prof. Anette Reenberg, University of Copenhagen
35. Adapting Coastal Zone and Marine Resources to Climate Change.  
Chair Prof. Pier Vellinga, Wageningen University
36. Approaches to Measuring and Enhancing Adaptive Capacities.  
Chair Prof. Tom Downing, Stockholm Environment Institute
37. Adapting Future Agricultural Production to Climate Change.  
Chairs Prof. John R. Porter, University of Copenhagen & Prof. Peter Gregory, Director of Scottish Crop Research Institute (SCRI)
38. Adapting Forests to Climate Change.  
Chair Prof. Niels Elers Koch, University of Copenhagen
39. Climate Tools and Information to Support Adaptation.  
Chair Dr. Jill Jäger, Sustainable Europe Research Institute (SERI)
40. Learning from Ongoing Adaptation: A Comparative Study.  
Chair Jamie Pittock, WWF Research Associate & Ph.D. Candidate, Australian National University
41. Adaptation to Climate Change in Least Developed Countries – Challenges, Experiences, and Ways Forward.  
Chairs Head of Centre John Christensen, UNEP Risoe Centre on Energy, Climate and Sustainable Development & Ph.D. Fatima Denton, Team Leader, Climate Change Adaptation in Africa (CCAA)
42. Adaptation and Climate Risk Insurance.  
Chair Dr. Koko Warner, United Nations University

Workshop: Creating Green Universities  
(tbc)

## Theme 5

### Managing the Planet

43. Integrating Climate Change into Global Sustainability.  
Chair **Prof. Kazuhiko Takeuchi, University of Tokyo**
44. Filling in the Gaps between IA (Integrated Assessment), GCM (General Circulation Model), Economic and ES (Earth System) Models.  
Chair **Dr. Rik Leemans, Wageningen University**
45. From Geo-Perturbation to Geo-Management.  
Chair **Prof. Ken Caldeira, Stanford University**
46. Consequences of Acidification of Land and Ocean.  
Chairs **Prof. Mary Scholes, University of Witwatersrand & Dr. Carol Turley, Plymouth Marine Laboratory**
47. Optimizing Food and Agricultural Production: Climate Constraints.  
Chair **Prof. Pam Matson, Stanford University**
48. Earth System Governance.  
Chairs **Prof. Agus Sari, EcoSecurities & Prof. Oran Young, Bren School of Environmental Science and Management, University of California**
49. The Role of Integrated Assessment Models in Handling Climate Change.  
Chair **Dr. Chris Hope, University of Cambridge**

## Theme 6

### Mobilising the Populace: Human Dimensions of Climate Change

50. Optimizing Food and Agricultural Production: Food Security.  
Chair **Prof. Dr. Louise Fresco, University of Amsterdam**
51. Economic Costs of not Mitigating Climate Change.  
Chair **Kevin Anderson, Research Director, Energy and Climate Change Programme, Tyndall Centre for Climate Change Research, Mechanical, Aerospace and Civil Engineering, University of Manchester**
52. Role of Media in Contributing in Combating Climate Change.  
Chair **Dr. Max Boykoff, University of Oxford**
53. The Role of non Nation State Actors (Cities, NGOs, Business) in Combating Climate Change.  
Chair **Director Polly Courtice, Cambridge Programme for Industry, University of Cambridge**
54. Ressources in a Changing Climate: Building Collaboration and Avoiding Conflict.  
Chair **Prof. Johan Rockström, University of Stockholm & Executive Director at Stockholm Environment Institute**
55. Human Migration - Geopolitical Conflicts.  
Chair **Prof. Ole Wæver, University of Copenhagen**
56. Cultures, Values and World Perspectives as Factors in Responding to Climate Change.  
Chair **Prof. Karen O'Brien, University of Oslo**

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